

L Number	Hits	Search Text	DB	Time stamp
-	290	((156/345.33) or (156/345.34)).CCLS.	USPAT; US-PGPUB	2004/04/16 12:46
-	13	4614639.URPN.	USPAT	2003/09/12 14:35
-	2	("3859535" "4209357").PN.	USPAT	2003/09/12 14:44
-	8	5496410.URPN.	USPAT	2003/09/12 15:01
-	29	("4369031" "4446815" "4499853" "4537795" "4590042" "4795529" "4817558" "4834020" "4948458" "4986216" "4990229" "4992665" "5105761" "5122251" "5134965" "5221556" "5232508" "5280154" "5290993" "5304247" "5328722" "5336326" "5368646" "5368710" "5391232" "5468298" "5551982" "5551985" "5614055").PN.	USPAT	2003/09/12 15:13
-	3	("4496423" "4595452" "5273588").PN.	USPAT	2003/09/12 15:24
-	1	5996528.URPN.	USPAT	2003/09/12 15:25
-	273	118/715.ccls. and expand\$3	USPAT; US-PGPUB	2003/09/12 17:23
-	95	118/715.ccls. and (expand\$3 with gas)	USPAT; US-PGPUB	2003/09/12 17:52
-	2048	118/715.ccls.	USPAT; US-PGPUB	2004/04/14 17:56
-	1344	118/715.ccls. and (gas with (supply\$3 inlet deliver\$3entry entrance))	USPAT; US-PGPUB	2003/09/12 18:10
-	4	("3293074" "3365336" "3189494" "3381114").PN.	USPAT	2003/09/12 17:58
-	26	3717439.URPN.	USPAT	2003/09/12 17:58
-	457	118/715.ccls. and (gas with (deliver\$3 entry))	USPAT; US-PGPUB	2003/09/12 18:11
-	6535	c23c016\$.ipc. and (gas with (supply\$3 inlet deliver\$3 entry entrance))	EPO; JPO; DERWENT	2003/09/12 18:11
-	0	c23c016\$.ipc. and (gas with (sexpand\$3))	EPO; JPO; DERWENT	2003/09/12 18:11
-	82	c23c016\$.ipc. and (gas with (expand\$3))	EPO; JPO; DERWENT	2003/09/12 18:11
-	1	"5000113".PN.	USPAT	2003/09/12 19:22
-	11	5338363.URPN.	USPAT	2003/09/12 19:22
-	4	5846330.URPN.	USPAT	2003/09/12 19:56
-	9	("4019091" "4728863" "4957062" "5188671" "5204145" "5256205" "5342660" "5571332" "5746834").PN.	USPAT	2003/09/12 19:57
-	11	("4649859" "4817558" "4825809" "4981722" "4986216" "5204314" "5284519" "5338363" "5372850" "5445699" "5458918").PN.	USPAT	2003/09/14 12:33
-	11	5338363.URPN.	USPAT	2003/09/14 13:34
-	13	4614639.URPN.	USPAT	2003/09/14 14:02
-	9	("4019091" "4728863" "4957062" "5188671" "5204145" "5256205" "5342660" "5571332" "5746834").PN.	USPAT	2003/09/14 14:10
-	4	5846330.URPN.	USPAT	2003/09/14 14:14
-	25	4909914.URPN.	USPAT	2003/09/14 14:30
-	8	4907534.URPN.	USPAT	2003/09/14 14:35
-	290	((156/345.33) or (156/345.34)).CCLS.	USPAT; US-PGPUB	2003/09/14 14:45
-	74	((((156/345.33) or (156/345.34)).CCLS.) and ((taper\$3 chamfer\$3 funnel slant\$3 angl\$3) with surface)	USPAT; US-PGPUB	2003/09/14 14:46
-	0	6334983.URPN.	USPAT	2003/09/14 16:19
-	0	6334983.URPN.	USPAT	2003/09/14 16:19
-	1	"6108189".PN.	USPAT	2003/09/14 16:19
-	152	chen-ling\$.in. ku-vincent\$.in. wu-dien\$.in. chung-hua\$.in. ouye-alan\$.in.	USPAT; US-PGPUB	2003/09/17 18:17
-	152	chen-ling\$.in. ku-vincent\$.in. wu-dien\$.in. chung-hua\$.in. ouye-alan\$.in. nakashim-norman.in.	USPAT; US-PGPUB	2003/09/17 18:17
-	94	(chen-ling\$.in. ku-vincent\$.in. wu-dien\$.in. chung-hua\$.in. ouye-alan\$.in. nakashim-norman.in.) and gas	USPAT; US-PGPUB	2003/09/17 18:18
-	11	5338363.URPN.	USPAT	2003/09/17 18:43

-	15	("5338363" "5423936" "5447570" "5589002" "5614026" "5746875" "5919332" "5985033" "6007635" "6027604" "6036782" "6050216" "6053982" "6123775" "6123791").PN.	USPAT	2003/09/17 18:45
-	1	("6179920").PN.	USPAT; US-PGPUB	2004/04/14 17:38
-	0	"10032284"	USPAT; US-PGPUB	2004/04/14 17:56
-	18	"10/032,284"	USPAT; US-PGPUB	2004/04/14 18:01
-	8	(gas with (deliver\$3 supply\$3) with funnel) and (118/715-733.ccls. 156/345\$.ccls. 204/298.ccls.)	USPAT; US-PGPUB	2004/04/14 18:37
-	5	6143077.URPN.	USPAT	2004/04/14 18:04
-	6	("4825809" "4854263" "5108792" "5200232" "5264040" "5536319").PN.	USPAT	2004/04/14 18:05
-	53	5200232.URPN.	USPAT	2004/04/14 18:07
-	3	6001267.URPN.	USPAT	2004/04/14 18:18
-	34	("3656454" "4512283" "4558388" "4565601" "4724621" "4771730" "4795529" "4798165" "4828369" "4848273" "4876983" "4918031" "4949671" "4960488" "4975252" "4986890" "4990229" "5000113" "5091049" "5105761" "5122251" "5124014" "5200232" "5310452" "5330610" "5376628" "5378311" "5389154" "5449432" "5522937" "5525159" "5537004" "5554223" "5626679").PN.	USPAT	2004/04/14 18:18
-	3	6001267.URPN.	USPAT	2004/04/14 18:25
-	19	("3993509" "4184188" "4354911" "4384918" "4401054" "4525375" "4709655" "4902934" "4910042" "4913929" "4962727" "4987857" "4996077" "5009920" "5024748" "5027746" "5047115" "5080039" "5094885").PN.	USPAT	2004/04/14 18:25
-	11	("3246627" "4495889" "4683143" "4883020" "4945856" "5079045" "5167717" "5248380" "5292554" "5324540" "5439525").PN.	USPAT	2004/04/14 18:28
-	11	("3246627" "4495889" "4683143" "4883020" "4945856" "5079045" "5167717" "5248380" "5292554" "5324540" "5439525").PN.	USPAT	2004/04/14 18:28
-	19	5536319.URPN.	USPAT	2004/04/14 18:29
-	5	6143077.URPN.	USPAT	2004/04/14 18:32
-	6	("4825809" "4854263" "5108792" "5200232" "5264040" "5536319").PN.	USPAT	2004/04/14 18:32
-	5	((("4732110") or ("4987856") or ("4991542") or ("5264038") or ("6143077"))).PN.	USPAT; US-PGPUB	2004/04/14 18:37
-	1	("5528793").PN.	USPAT; US-PGPUB	2004/04/16 12:48
-	0	PCT/US96/10657	USPAT; US-PGPUB	2004/04/16 12:48
-	154	"10657"	USPAT; US-PGPUB	2004/04/16 12:49
-	16	flehr.in.	EPO; JPO; DERWENT	2004/04/16 12:51
-	0	"199703223"	EPO; JPO; DERWENT	2004/04/16 12:51
-	8	"9703223"	EPO; JPO; DERWENT	2004/04/16 12:54
-	2	"02073624"	EPO; JPO; DERWENT	2004/04/16 12:55
-	2	((("4960488") or ("4744416"))).PN.	USPAT; US-PGPUB	2004/04/16 12:56
-	1	("4774416").PN.	USPAT; US-PGPUB	2004/04/16 13:41

-	64	(118/715-733.ccls. 156/345.\$ccls.) and (gas with choke)	USPAT; US-PGPUB	2004/04/16 15:11
-	761	((edge perimeter circumferen6\$6) with (constrict\$3 chok\$3 prevent\$3) with (flow\$3 gas)) same (substrate wafer)	USPAT; US-PGPUB	2004/04/16 16:28
-	170	((edge perimeter circumferen6\$6) with (constrict\$3 chok\$3 prevent\$3) with (flow\$3 gas)) same (substrate wafer) same (lid cover top)	USPAT; US-PGPUB	2004/04/16 15:10
-	469	(118/715-733.ccls. 156/345.\$ccls.) and ((slop\$3 taper\$3 slant\$3 diverg\$3 taper\$3) same (lid cover top))	USPAT; US-PGPUB	2004/04/16 15:12
-	248	(118/715-733.ccls. 156/345.\$ccls.) and ((slop\$3 taper\$3 slant\$3 diverg\$3 taper\$3) with(lid cover top))	USPAT; US-PGPUB	2004/04/16 15:21
-	11	(c23c016\$.ipc.) and ((slop\$3 taper\$3 slant\$3 diverg\$3 taper\$3) with (lid cover top) with surface)	EPO; JPO; DERWENT	2004/04/16 15:45
-	4	"2003035927"	EPO; JPO; DERWENT	2004/04/16 15:17
-	0	"035927"	EPO; JPO; DERWENT	2004/04/16 15:17
-	97	(118/715-733.ccls. 156/345.\$ccls.) and ((slop\$3 taper\$3 slant\$3 diverg\$3 taper\$3) with (lid cover top) with surface)	USPAT; US-PGPUB	2004/04/16 15:17
-	26	(118/715-733.ccls. 156/345.\$ccls.) and ((slop\$3 taper\$3 slant\$3 diverg\$3 taper\$3) with (lid cover) with surface)	USPAT; US-PGPUB	2004/04/16 15:17
-	61	(118/715-733.ccls. 156/345.\$ccls.) and ((slop\$3 taper\$3 slant\$3 diverg\$3 taper\$3) with (lid cover))	USPAT; US-PGPUB	2004/04/16 15:44
-	35	((118/715-733.ccls. 156/345.\$ccls.) and ((slop\$3 taper\$3 slant\$3 diverg\$3 taper\$3) with (lid cover))) not ((118/715-733.ccls. 156/345.\$ccls.) and ((slop\$3 taper\$3 slant\$3 diverg\$3 taper\$3) with (lid cover) with surface))	USPAT; US-PGPUB	2004/04/16 15:21
-	8	("4866346" "4877509" "4985109" "5078823" "5081398" "5134965" "5270616" "5433789").PN.	USPAT	2004/04/16 15:22
-	8	5646489.URPN.	USPAT	2004/04/16 15:24
-	4	("4786352" "5346578" "5646489" "5685941").PN.	USPAT	2004/04/16 15:26
-	19	(c23c016\$.ipc.) and ((slop\$3 taper\$3 slant\$3 diverg\$3 taper\$3 curv\$3 convex concav\$3) with (lid cover))	EPO; JPO; DERWENT	2004/04/16 15:54
-	1	474251.URPN.	USPAT	2004/04/16 15:48
-	1	("5085887").PN.	USPAT; US-PGPUB	2004/04/16 15:54
-	31	5085887.URPN.	USPAT	2004/04/16 15:54
-	3	5573566.URPN.	USPAT	2004/04/16 15:58
-	4	("3721210" "4920918" "4958061" "5000113").PN.	USPAT	2004/04/16 16:07
-	14	3721210.URPN.	USPAT	2004/04/16 16:09
-	10	("2953483" "3020128" "3041133" "3161542" "3223549" "3236205" "3321092" "3466079" "3469560" "3627590").PN.	USPAT	2004/04/16 16:11
-	86	(118/715-733.ccls. 156/345.\$ccls.) and ((curv\$3 convex concav\$3) with (lid cover))	USPAT; US-PGPUB	2004/04/16 16:12
-	122	((edge perimeter circumferen6\$6) with (restrict3 constrain\$3 constrict\$3 chok\$3 prevent\$3) with (flow\$3 with gas)) and (118/715-733.ccls 156/345.\$ccls. (216/\$ccls. and gas) (438/\$ccls. and gas) (427/\$ccls. and gas))	USPAT; US-PGPUB	2004/04/16 16:42
-	122	((edge perimeter circumferen6\$6) with (restrict3 constrain\$3 constrict\$3 chok\$3 prevent\$3) with (flow\$3 with gas)) and (118/715-733.ccls 156/345.\$ccls. 216/\$ccls. 438/\$ccls. 427/\$ccls.)	USPAT; US-PGPUB	2004/04/16 17:23

-	3	((("6302965") or ("4761269") or ("3291456"))).PN.	USPAT; US-PGPUB	2004/04/16 17:23
-	1	("6179920").PN.	USPAT; US-PGPUB	2004/04/19 14:50
-	114	(US-5620523-\$ or US-5338363-\$ or US-5338364-\$ or US-5264038-\$ or US-5062386-\$ or US-4997677-\$ or US-4976217-\$ or US-4987856-\$ or US-4961399-\$ or US-4920918-\$ or US-4909914-\$ or US-4907534-\$ or US-5085887-\$ or US-4825809-\$ or US-4761171-\$ or US-4761269-\$ or US-4632060-\$ or US-3673051-\$ or US-6589610-\$ or US-5256205-\$ or US-5204145-\$ or US-5132512-\$ or US-6596085-\$ or US-5919332-\$ or US-5200232-\$ or US-6001267-\$).did. or (US-5047115-\$ or US-5024748-\$ or US-6086952-\$ or US-6079356-\$ or US-6474986-\$ or US-5346578-\$ or US-5710407-\$ or US-5573566-\$ or US-6129546-\$ or US-6179955-\$ or US-6222161-\$ or US-4510176-\$ or US-6508197-\$ or US-6334983-\$ or US-6289842-\$ or US-6165314-\$ or US-6022414-\$ or US-5996528-\$ or US-5942074-\$ or US-5851294-\$ or US-5597439-\$ or US-5685914-\$ or US-5423936-\$ or US-5496410-\$ or US-5494522-\$ or US-5328556-\$ or US-5264040-\$).did. or (US-5105761-\$ or US-4901667-\$ or US-4718976-\$ or US-4590042-\$ or US-4614639-\$ or US-4595452-\$ or US-5614026-\$ or US-5368646-\$ or US-5273588-\$ or US-6436193-\$ or US-6454860-\$ or US-6179920-\$ or US-6093252-\$ or US-5846330-\$ or US-5725672-\$ or US-5284519-\$ or US-4774416-\$ or US-6540837-\$ or US-6471782-\$ or US-6450803-\$ or US-6428847-\$ or US-6306216-\$ or US-6302965-\$ or US-6159299-\$ or US-6210485-\$ or US-6143077-\$ or US-6123776-\$).did. or (US-6099648-\$ or US-6071375-\$ or US-6070551-\$ or US-5888303-\$ or US-5776254-\$).did. or (US-20030108674-\$ or US-20030124262-\$ or US-20030082301-\$ or US-20020011215-\$ or US-20030116087-\$ or US-20030121608-\$ or US-20030079686-\$ or US-20030019580-\$ or US-20030019428-\$ or US-20010035127-\$ or US-20030159653-\$ or US-20030140857-\$ or US-20020046704-\$).did. or (WO-3035927-\$ or WO-9703223-\$).did. or (JP-11006069-\$ or JP-63176474-\$ or JP-62116770-\$ or JP-63020483-\$ or JP-62116771-\$ or JP-62116774-\$ or JP-2001152344-\$ or JP-02073624-\$).did. or (WO-2003035927-\$ or WO-9840533-\$ or EP-991792-\$ or DE-4005796-\$ or EP-474251-\$ or EP-418554-\$).did.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/19 16:06
-	1	(US-3291456-\$).did.	USOCR	2004/04/19 16:06

-	9	((US-5620523-\$ or US-5338363-\$ or US-5338364-\$ or US-5264038-\$ or US-5062386-\$ or US-4997677-\$ or US-4976217-\$ or US-4987856-\$ or US-4961399-\$ or US-4920918-\$ or US-4909914-\$ or US-4907534-\$ or US-5085887-\$ or US-4825809-\$ or US-4761171-\$ or US-4761269-\$ or US-4632060-\$ or US-3673051-\$ or US-6589610-\$ or US-5256205-\$ or US-5204145-\$ or US-5132512-\$ or US-6596085-\$ or US-5919332-\$ or US-5200232-\$ or US-6001267-\$).did. or (US-5047115-\$ or US-5024748-\$ or US-6086952-\$ or US-6079356-\$ or US-6474986-\$ or US-5346578-\$ or US-5710407-\$ or US-5573566-\$ or US-6129546-\$ or US-6179955-\$ or US-6222161-\$ or US-4510176-\$ or US-6508197-\$ or US-6334983-\$ or US-6289842-\$ or US-6165314-\$ or US-6022414-\$ or US-5996528-\$ or US-5942074-\$ or US-5851294-\$ or US-5597439-\$ or US-5685914-\$ or US-5423936-\$ or US-5496410-\$ or US-5494522-\$ or US-5328556-\$ or US-5264040-\$).did. or (US-5105761-\$ or US-4901667-\$ or US-4718976-\$ or US-4590042-\$ or US-4614639-\$ or US-4595452-\$ or US-5614026-\$ or US-5368646-\$ or US-5273588-\$ or US-6436193-\$ or US-6454860-\$ or US-6179920-\$ or US-6093252-\$ or US-5846330-\$ or US-5725672-\$ or US-5284519-\$ or US-4774416-\$ or US-6540837-\$ or US-6471782-\$ or US-6450803-\$ or US-6428847-\$ or US-6306216-\$ or US-6302965-\$ or US-6159299-\$ or US-6210485-\$ or US-6143077-\$ or US-6123776-\$).did. or (US-6099648-\$ or US-6071375-\$ or US-6070551-\$ or US-5888303-\$ or US-5776254-\$).did. or (US-20030108674-\$ or US-20030124262-\$ or US-20030082301-\$ or US-20020011215-\$ or US-20030116087-\$ or US-20030121608-\$ or US-20030079686-\$ or US-20030019580-\$ or US-20030019428-\$ or US-20010035127-\$ or US-20030159653-\$ or US-20030140857-\$ or US-20020046704-\$).did. or (WO-3035927-\$ or WO-9703223-\$).did. or (JP-11006069-\$ or JP-63176474-\$ or JP-62116770-\$ or JP-63020483-\$ or JP-62116771-\$ or JP-62116774-\$ or JP-2001152344-\$ or JP-02073624-\$).did. or (WO-2003035927-\$ or WO-9840533-\$ or EP-991792-\$ or DE-4005796-\$ or EP-474251-\$ or EP-418554-\$).did.) and (small with volume)	USPAT; US-PGPUB	2004/04/19 16:06
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-	114	(US-6508197-\$ or US-6334983-\$ or US-6289842-\$ or US-6165314-\$ or US-5851294-\$ or US-6022414-\$ or US-5996528-\$ or US-5942074-\$ or US-5685914-\$ or US-5597439-\$ or US-5496410-\$ or US-5494522-\$ or US-5423936-\$ or US-5328556-\$ or US-5264040-\$ or US-5105761-\$ or US-4901667-\$ or US-4718976-\$ or US-4614639-\$ or US-4595452-\$ or US-4590042-\$ or US-5614026-\$ or US-5368646-\$ or US-5273588-\$ or US-6454860-\$ or US-6436193-\$).did. or (US-6179920-\$ or US-6093252-\$ or US-5846330-\$ or US-5725672-\$ or US-5284519-\$ or US-4774416-\$ or US-6540837-\$ or US-6471782-\$ or US-6450803-\$ or US-6428847-\$ or US-6306216-\$ or US-6302965-\$ or US-6210485-\$ or US-6159299-\$ or US-6143077-\$ or US-6123776-\$ or US-6099648-\$ or US-6071375-\$ or US-6070551-\$ or US-5888303-\$ or US-5776254-\$ or US-5620523-\$ or US-5338364-\$ or US-5338363-\$ or US-5264038-\$ or US-5085887-\$ or US-5062386-\$).did. or (US-4997677-\$ or US-4987856-\$ or US-4976217-\$ or US-4961399-\$ or US-4920918-\$ or US-4909914-\$ or US-4907534-\$ or US-4825809-\$ or US-4761269-\$ or US-4761171-\$ or US-4632060-\$ or US-3673051-\$ or US-6589610-\$ or US-5256205-\$ or US-5204145-\$ or US-5132512-\$ or US-6596085-\$ or US-5919332-\$ or US-5200232-\$ or US-6001267-\$ or US-5047115-\$ or US-5024748-\$ or US-6086952-\$ or US-6079356-\$ or US-6474986-\$ or US-5346578-\$ or US-5710407-\$).did. or (US-5573566-\$ or US-6222161-\$ or US-6179955-\$ or US-6129546-\$ or US-4510176-\$).did. or (US-20030121608-\$ or US-20030116087-\$ or US-20030079686-\$ or US-20030019580-\$ or US-20030019428-\$ or US-20010035127-\$ or US-20030159653-\$ or US-20030140857-\$ or US-20020046704-\$ or US-20030124262-\$ or US-20030108674-\$ or US-20030082301-\$ or US-20020011215-\$).did. or (WO-3035927-\$ or WO-9703223-\$).did. or (JP-63176474-\$ or JP-2001152344-\$ or JP-11006069-\$ or JP-63020483-\$ or JP-62116771-\$ or JP-62116774-\$ or JP-62116770-\$ or JP-02073624-\$).did. or (WO-2003035927-\$ or EP-991792-\$ or WO-9840533-\$ or DE-4005796-\$ or EP-474251-\$ or EP-418554-\$).did. (US-3291456-\$).did.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/20 12:06
-	1	(US-3291456-\$).did.	USOCR	2004/04/20 12:06
-	30704	pneumatic\$4 with valve	USPAT; US-PGPUB	2004/04/20 12:07

-	5	((US-6508197-\$ or US-6334983-\$ or US-6289842-\$ or US-6165314-\$ or US-5851294-\$ or US-6022414-\$ or US-5996528-\$ or US-5942074-\$ or US-5685914-\$ or US-5597439-\$ or US-5496410-\$ or US-5494522-\$ or US-5423936-\$ or US-5328556-\$ or US-5264040-\$ or US-5105761-\$ or US-4901667-\$ or US-4718976-\$ or US-4614639-\$ or US-4595452-\$ or US-4590042-\$ or US-5614026-\$ or US-5368646-\$ or US-5273588-\$ or US-6454860-\$ or US-6436193-\$).did. or (US-6179920-\$ or US-6093252-\$ or US-5846330-\$ or US-5725672-\$ or US-5284519-\$ or US-4774416-\$ or US-6540837-\$ or US-6471782-\$ or US-6450803-\$ or US-6428847-\$ or US-6306216-\$ or US-6302965-\$ or US-6210485-\$ or US-6159299-\$ or US-6143077-\$ or US-6123776-\$ or US-6099648-\$ or US-6071375-\$ or US-6070551-\$ or US-5888303-\$ or US-5776254-\$ or US-5620523-\$ or US-5338364-\$ or US-5338363-\$ or US-5264038-\$ or US-5085887-\$ or US-5062386-\$).did. or (US-4997677-\$ or US-4987856-\$ or US-4976217-\$ or US-4961399-\$ or US-4920918-\$ or US-4909914-\$ or US-4907534-\$ or US-4825809-\$ or US-4761269-\$ or US-4761171-\$ or US-4632060-\$ or US-3673051-\$ or US-6589610-\$ or US-5256205-\$ or US-5204145-\$ or US-5132512-\$ or US-6596085-\$ or US-5919332-\$ or US-5200232-\$ or US-6001267-\$ or US-5047115-\$ or US-5024748-\$ or US-6086952-\$ or US-6079356-\$ or US-6474986-\$ or US-5346578-\$ or US-5710407-\$).did. or (US-5573566-\$ or US-6222161-\$ or US-6179955-\$ or US-6129546-\$ or US-4510176-\$).did. or (US-20030121608-\$ or US-20030116087-\$ or US-20030079686-\$ or US-20030019580-\$ or US-20030019428-\$ or US-20010035127-\$ or US-20030159653-\$ or US-20030140857-\$ or US-20020046704-\$ or US-20030124262-\$ or US-20030108674-\$ or US-20030082301-\$ or US-20020011215-\$).did. or (WO-3035927-\$ or WO-9703223-\$).did. or (JP-63176474-\$ or JP-2001152344-\$ or JP-11006069-\$ or JP-63020483-\$ or JP-62116771-\$ or JP-62116774-\$ or JP-62116770-\$ or JP-02073624-\$).did. or (WO-2003035927-\$ or EP-991792-\$ or WO-9840533-\$ or DE-4005796-\$ or EP-474251-\$ or EP-418554-\$).did.) and (pneumatic\$4 with valve)	USPAT; US-PGPUB	2004/04/20 12:07
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-	3	((US-6508197-\$ or US-6334983-\$ or US-6289842-\$ or US-6165314-\$ or US-5851294-\$ or US-6022414-\$ or US-5996528-\$ or US-5942074-\$ or US-5685914-\$ or US-5597439-\$ or US-5496410-\$ or US-5494522-\$ or US-5423936-\$ or US-5328556-\$ or US-5264040-\$ or US-5105761-\$ or US-4901667-\$ or US-4718976-\$ or US-4614639-\$ or US-4595452-\$ or US-4590042-\$ or US-5614026-\$ or US-5368646-\$ or US-5273588-\$ or US-6454860-\$ or US-6436193-\$).did. or (US-6179920-\$ or US-6093252-\$ or US-5846330-\$ or US-5725672-\$ or US-5284519-\$ or US-4774416-\$ or US-6540837-\$ or US-6471782-\$ or US-6450803-\$ or US-6428847-\$ or US-6306216-\$ or US-6302965-\$ or US-6210485-\$ or US-6159299-\$ or US-6143077-\$ or US-6123776-\$ or US-6099648-\$ or US-6071375-\$ or US-6070551-\$ or US-5888303-\$ or US-5776254-\$ or US-5620523-\$ or US-5338364-\$ or US-5338363-\$ or US-5264038-\$ or US-5085887-\$ or US-5062386-\$).did. or (US-4997677-\$ or US-4987856-\$ or US-4976217-\$ or US-4961399-\$ or US-4920918-\$ or US-4909914-\$ or US-4907534-\$ or US-4825809-\$ or US-4761269-\$ or US-4761171-\$ or US-4632060-\$ or US-3673051-\$ or US-6589610-\$ or US-5256205-\$ or US-5204145-\$ or US-5132512-\$ or US-6596085-\$ or US-5919332-\$ or US-5200232-\$ or US-6001267-\$ or US-5047115-\$ or US-5024748-\$ or US-6086952-\$ or US-6079356-\$ or US-6474986-\$ or US-5346578-\$ or US-5710407-\$).did. or (US-5573566-\$ or US-6222161-\$ or US-6179955-\$ or US-6129546-\$ or US-4510176-\$).did. or (US-20030121608-\$ or US-20030116087-\$ or US-20030079686-\$ or US-20030019580-\$ or US-20030019428-\$ or US-20010035127-\$ or US-20030159653-\$ or US-20030140857-\$ or US-20020046704-\$ or US-20030124262-\$ or US-20030108674-\$ or US-20030082301-\$ or US-20020011215-\$).did. or (WO-3035927-\$ or WO-9703223-\$).did. or (JP-63176474-\$ or JP-2001152344-\$ or JP-11006069-\$ or JP-63020483-\$ or JP-62116771-\$ or JP-62116774-\$ or JP-62116770-\$ or JP-02073624-\$).did. or (WO-2003035927-\$ or EP-991792-\$ or WO-9840533-\$ or DE-4005796-\$ or EP-474251-\$ or EP-418554-\$).did.) and (ikedai)	USPAT; US-PGPUB	2004/04/20 12:09
-	21	c23c016\$.ipc. and (valve with zero with dead)\	USPAT; US-PGPUB	2004/04/20 12:44
-	21	c23c016\$.ipc. and (valve with zero with dead)	USPAT; US-PGPUB	2004/04/20 12:50
-	0	c23c016\$.ipc. and (valve with zero with dead)	EPO; JPO; DERWENT	2004/04/20 12:44
-	3	valve with zero with dead with volume	EPO; JPO; DERWENT	2004/04/20 12:39
-	1	("5542452").PN.	USPAT; US-PGPUB	2004/04/20 12:31
-	150	valve with zero with dead with volume	USPAT; US-PGPUB	2004/04/20 12:39
-	17	valve with zero with dead with volume with gas	USPAT; US-PGPUB	2004/04/20 12:43

-	2	c23c016\$.ipc. and (valve with actuat\$4	EPO; JPO;	2004/04/20 12:45
-	1	with (electric\$4 pneumatic\$4))	DERWENT	
		("5224513").PN.	USPAT;	2004/04/20 12:46
			US-PGPUB	